wavestore
Innovation with integrity

Wavestore VMS
software overview

Sitting at the heart of a security solution, Wavestore's open platform Video Management Software (VMS) offers so much more than just industry leading video and recording management. As well as bringing together audio, data and video, including images from the very latest ultra-high definition and 360° fish eye cameras, Wavestore provides a platform that makes integration between disparate third-party technologies simple. Our VMS unlocks a host of business intelligence and operational benefits and enables the deployment of technology such as intelligent video analytics, whilst augmenting often 'dumb' systems with video and ease of control to create a much more powerful and effective total security solution.

CAMERAS
Any video, any format

Including: High-megapixel, UHD, 4K, HD, MP, HD-over-coax, 360° & Fisheye, Thermal and Analogue

Integrated with thousands of cameras from all leading vendors

Onvif | The IP-based Security Standard

ACCESS CONTROL
Access, granted

✓ Instantaneously retrieve recorded images of any access control activity

✓ Search by text, door location and activity

✓ Proactively address unauthorised attempts to enter a restricted area

✓ Full integration with a host of Access Control vendors

VIDEO ANALYTICS
Intelligent video, empowering systems

✓ Benefit from full integration with best-in-breed analytics providers

✓ ANPR, Facial Recognition, Heat Mapping, People Counting, Advanced Motion Detection and many more

✓ On-camera or dedicated server analytic engine compatibility

PIDS AND SENSORS
Detect, decide

✓ Integration with a wide range of PID technology including fibre optics

✓ Simple setup of powerful rules-based actions from sensor triggers
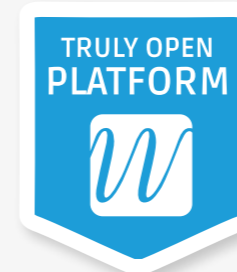
AUDIO
Listen, communicate

✓ Integrates with cost-effective, standard audio equipment

✓ Associate multiple microphones to video from any camera using external or in-camera microphones

✓ Enable two-way communication

EPoS and Text
Transact, verify

✓ Add the power of video to text output

✓ Search by any relevant text field, such as item or value

WaveStar
Open, for business

✓ Wavestore's specialist integration service

✓ Integrate practically anything into your Wavestore solution

✓ Easy to deploy across your entire system via a simple upload

✓ Ensures future-proof operation. Integrate additional devices and systems as your solution grows over time

Unlock the full potential
of your integrated security solution with Wavestore

wavestore
Innovation with integrity

TRULY OPEN PLATFORM

WAVESTORE RECORDING OPTIONS
Powerful storage and control

Wavestore offers its own range of high-performance recording and storage appliances from entry level through to enterprise level. Available in pure IP or IP/Analogue Hybrid formats, each appliance is optimised for use with any level of Wavestore's VMS (Base, Premium & Enterprise), making it possible to create the perfect solution for virtually any application.

Please visit Wavestore.com to view our full range of appliances

THIRD PARTY RECORDING DEVICES
Flexible storage and control

Wavestore's VMS can be installed on a wide range of third-party professional recording and storage appliances. What's more, Wavestore operates a comprehensive third-party hardware certification programme to ensure full compatibility.

One screen, total control...

WAVEVIEW REVIEW CLIENT
Manage your entire system from just one screen

✓ Powerful search functionality with instant video retrieval

✓ 3-click evidential export

✓ Fully customisable layout allowing simultaneous viewing of live and recorded video

✓ Minimal training required

✓ WaveView client compatible with Windows and Linux

WAVEVIEW MOBILE
Receive video on your phone or tablet device

✓ View, control & monitor multiple security feeds 'on the move'

✓ View live and recorded video with full playback control

✓ Instant 'Time Jump' video recall feature

✓ Customisable multi-screen layouts

✓ Gesture Pan/Tilt/Zoom control

✓ Available on Android and iOS

Visit wavestore.com for a full list of third party integrations

Choose your Wavestore VMS level

Left Table

Version 5.52	Base	Premium	Enterprise
Video Management Software (VMS)			
Max cameras per server	16	64	192
Max concurrent client application connections per server	2	5	Unlimited
Max simultaneous server connections per client application (Server Groups)	1	5	255
Quick and easy Linux server installation of Wavestore VMS	✓	✓	✓
Ability to run server and client application on a single machine*	✓	✓	✓
Advanced certified watermarking (image authentication)	Optional	Optional	Optional
Image encryption	✓	✓	✓
Multiple languages supported	✓	✓	✓
Video wall compatibility including WaveMatrix	✓	✓	✓
Unified multiple server health monitoring (within server group)	-	✓	✓
Active Directory support	-	-	✓
Camera Integration			
IP, HD, 4K, Megapixel, HD-SDI, Thermal and Analogue camera integration	✓	✓	✓
ONVIF conformant	✓	✓	✓
Automatic ONVIF camera discovery	✓	✓	✓
Open architecture for third party camera integration	✓	✓	✓
H.264, M-JPEG, MPEG-4, MPEG-2, MxPEG (Mobotix), JPEG2000 video format support	✓	✓	✓
360° and fisheye camera integration	✓	✓	✓
Very high Megapixel camera support (above 10MP)	✓	✓	✓
Other Third Party Integrations			
Video Analytics			
People Counting	-	Optional	Optional
Crowd Monitoring	-	Optional	Optional
Heat Maps	-	Optional	Optional
Facial Recognition	-	Optional	Optional
Advanced motion detection	-	Optional	Optional
i-LIDS approved detection analytics	-	Optional	Optional
Text based analytics			
Electronic Point of Sales (EPOS)	-	Optional	Optional
Automatic Number Plate Recognition (ANPR/LPR)	-	Optional	Optional
Access Control			
Access Control systems	-	Optional	Optional
Perimeter Intrusion Detection Systems (PIDS)			
Optical fibre based systems	-	Optional	Optional
Physical Security Information Management (PSIM)			
Full command & control systems	-	Optional	Optional

Right Table

Version 5.52	Base	Premium	Enterprise
Audio			
Built-in camera, analogue capture, on-board server and other PC audio sub-systems	✓	✓	✓
Specialist Integration			
Bespoke device integration via WaveStar script feature	-	Optional	Optional
WaveView Review Suite - Client software application			
WaveView client application compatible with Linux and Windows	✓	✓	✓
WaveView Mobile - Mobile client application for Android and iOS	✓	✓	✓
Fully customizable Graphical User Interface (GUI)	✓	✓	✓
Simultaneously display live and playback images	✓	✓	✓
Configurable size, aspect ratio and position of camera layouts	✓	✓	✓
User defined custom camera layouts	✓	✓	✓
3-click evidential export of recorded video	✓	✓	✓
Simple synchronisation of multiple recorded views	✓	✓	✓
Multiple simultaneous camera video export	✓	✓	✓
Quick and easy export of live video	✓	✓	✓
3-Axis mouse or joystick support	✓	✓	✓
Time stamped synchronised replay of all camera images	✓	✓	✓
Option to export to other video and audio formats	✓	✓	✓
Client de-warping of any 360 degree/fisheye cameras in live, playback and export	✓	✓	✓
Unlimited configurable views from any single 360 degree/fisheye stream	✓	✓	✓
Interactive Maps	-	✓	✓
Recording management			
Configurable recording schedules	✓	✓	✓
Native quality image recording	✓	✓	✓
Configurable multi-track recording per camera	✓	✓	✓
Time-lapse recording	✓	✓	✓
Lip-sync audio recording	✓	✓	✓
Native 360° and fisheye camera recording	✓	✓	✓
iSCSI support	✓	✓	✓
Event-driven video switching	✓	✓	✓
Search functionality			
Instantaneous retrieval of recorded video	✓	✓	✓
Instant find playback slider	✓	✓	✓
Global text search of operator event notes	✓	✓	✓
Event/Alarm search and instant replay	-	✓	✓
Advanced Electronic Point of Sale (EPoS) transaction search	-	Optional	Optional
Metadata search (includes third party events)	-	Optional	Optional
Configurable event email notifications	✓	✓	✓
Manual and/or automatic digital output trigger	✓	✓	✓
Flexible cause & action rules engine	✓	✓	✓
System health monitoring and diagnostics	✓	✓	✓
Evidential video locking	✓	✓	✓
Real time on screen event list	-	✓	✓
Updates			
Wavestore software upgrades (within current version)	90 Days	1 Year	1 Year
Easy upgrade to next tier of software (Base to Premium for example)	✓	✓	N/A
Service Level Agreement (SLA)	Optional	Optional	Optional

Easy upgrade path

Looking to add additional camera counts or functionality as your system grows? Simply add more channel licenses to your system or upgrade the level of Wavestore's VMS, all without disruption to your existing system or having to reinstall software.

Features of Wavestore's VMS
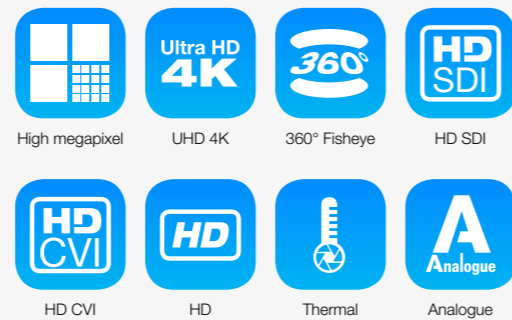
wavestore — Innovation with integrity

One screen, total control

Simultaneously view, control and manage live video, recorded footage and integrated devices, all from one screen, all at the same time, to create a fully scalable and powerful total security solution.

Any video, any format

Wavestore is compatible with a wide range of video technologies making it possible to have any combination of camera types and images displayed on screen and recorded at the same time, even with a mix of compression formats including H.264, M-JPEG, MPEG-4, MPEG-2, MxPEG and JPG2000.

High megapixel · UHD 4K · 360° Fisheye · HD SDI

HD CVI · HD · Thermal · Analogue

Leading 360° dewarping as standard

Wavestore delivers powerful client-side dewarping as standard across all levels of its VMS. Compatible with a multitude of camera brands, you need never miss a thing with full 360° recording providing complete live or recorded image interrogation as part of your overall solution.

Rapid retrieval, effective decisions

Thanks to Wavestore's unique architecture, users are able to search multiple petabytes of storage by text, alarm/event or via an intuitive play-bar with pin-point accuracy to instantaneously retrieve and play back recorded video.

Open, for business

Future-proof your system with Wavestore's truly independent open platform VMS and benefit from best-in-breed integrated solutions which unlock real benefits and maximise return on investment regardless of industry.

Wide Technology Partner eco-system

Wavestore operates an ever expanding Technology Partner programme allowing partners to benefit from seamless integrations across a host of best-in-breed brands encompassing cameras, access control, video analytics and much more. In addition, Wavestore is fully compliant with ONVIF profile S bringing enhanced flexibility to camera choice.

ONVIF | The IP-based Security Standard

ampleye — See everything · AXIS COMMUNICATIONS · BOSCH · Canon · PORTECHO · herta security · immix SureView · intelico · MAXXESS · MOBOTIX · OptaSense a QinetiQ company · OPTEX · razberi technologies · SAMSUNG · Grosvenor · Tattile · VIVOTEK BUILT WITH RELIABILITY · and many more...

THE LINUX ADVANTAGE

- Industry leading throughput
- Wavestore VMS embedded into the Linux Operating System
- Save on processor & hardware requirements
- Low energy and maintenance costs
- Lightening quick updates

Data integrity, better evidence

Wavestore's VMS is engineered with security and resilience at its very heart utilising a robust anti-corruption file system coupled with 4096bit encryption to provide peace of mind that your data remains safe and secure at all times.

Multiple track recording

Up to three recording tracks can be utilised per camera channel for applications that demand off-site redundancy.
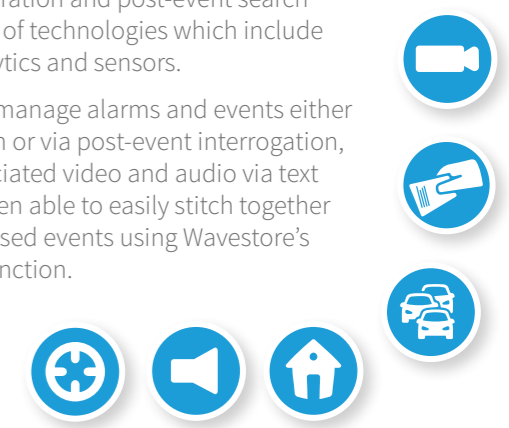
WaveStar specialist device integration

Wavestore's unique WaveStar scripting service makes quick and cost-effective integration possible for a wide range of devices. Virtually anything with an output can be integrated, allowing events and metadata to be captured, events to be triggered and associated video interrogated.

Efficient management, unlimited data

Wavestore utilises an ultra-robust proprietary Large Allocation Storage System (LASS) to deliver industry-leading throughput, high volume recoding rates, efficient HDD usage of up to 98% of disk size and enables Wavestore's lightning fast search functionality – which is up to 95% faster than that of other VMS platforms, even across storage of multiple petabytes.

3-click evidential export

A fully stitched-together sequence of events from any number of cameras can be exported in just three clicks to a wide range of video formats.

1. Set start point of video
2. Set end point of video
3. Export

One level of support, always excellent

Wavestore's reputation is built on providing excellent products backed by service to match. With a 3 or 5 year optional Service Level Agreement (SLA), you can take advantage of new software features and functionality as they are introduced to unlock powerful new benefits well into the future.

Intelligent video, empowering systems

Wavestore's VMS brings together video, audio and data from disparate devices onto a single future-proof platform, enabling powerful live operation and post-event search functionality across a host of technologies which include access control, video analytics and sensors.

This enables operators to manage alarms and events either in real time as they happen or via post-event interrogation, including retrieval of associated video and audio via text searches. Operators are then able to easily stitch together video from time-synchronised events using Wavestore's 3-click evidential export function.

A level of Wavestore's VMS to suit your needs

wavestore
Innovation with integrity

Wavestore's VMS is provided as a single software package that puts you firmly in control of selecting the level you require for your application.

With a simple 'buy-once' licence model you are able to purchase the number of channels required, change cameras as often as you like, easily add additional licenses as your system grows; or upgrade to the next level of software – all managed via licence key so there's never a need to reinstall software.

Enterprise

- Enables integration with other technologies & devices
- Metadata engine option
- Up to 192 cameras per appliance/ server
- Unlimited concurrent client connections
- View up to 255 servers simultaneously from the same WaveView client (255 Server Groups)
- Any video, any format
- WaveStar bespoke integration options available
- 1 year software updates as standard with optional 3 or 5 year SLA available

Premium

- Enables integration with other technologies & devices
- Metadata engine option
- Up to 64 cameras per appliance/server
- Up to 5 concurrent client connections
- View up to 5 servers simultaneously from the same WaveView client (5 Server Groups)
- Any video, any format
- WaveStar bespoke integration options available
- 1 year software updates as standard with optional 3 or 5 year SLA available

Base

- Video & audio applications only
- Up to 16 cameras per appliance/server
- Up to 2 concurrent client connections
- Any video, any format
- 90 days software updates as standard with optional 3 or 5 year SLA available

---

wavestore
Innovation with integrity

Phone:
+44 (0)20 8756 5480

Head Office
Wavestore Ltd,
1 The Metro Centre,
Springfield Road,
London, UB4 0LE, UK

Email:
info@wavestore.com

Visit:
wavestore.com

Onvif | The IP based Security Standard

Version 1